

## INTERNATIONAL SEARCH REPORT

10/54 1005  
Rec'd PCT/PTO 28 JUN 2005  
PCT/IB 03/06251

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H04B1/707 H04L25/02

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04B H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category <sup>a</sup>	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 0 876 002 A (LUCENT TECHNOLOGIES INC) 4 November 1998 (1998-11-04) page 6, line 11 -page 7, line 4; figures 4,5 page 12, line 23 -page 15, line 9; claims 1-23; figures 22,23	1-20
Y	WO 02/09375 A (MENGALI UMBERTO ;MORELLI MICHELE (IT); MASCIARELLI ALESSANDRO (IT)) 31 January 2002 (2002-01-31) cited in the application page 3, line 17 -page 4, line 14 page 4, line 24 - line 29 page 7, line 15 -page 8, line 7; claims 1-9	1-20

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

## \* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

16 April 2004

23/04/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/093768 A (INTEL CORP) 21 November 2002 (2002-11-21)  page 2, line 26 -page 3, line 21 page 5, line 7 -page 6, line 19; figure 3A page 8, line 17 -page 10, line 14; figure 3B page 12, line 13 -page 14, line 14 page 18, line 18 -page 21, line 32	1,2, 10-12, 15-19
X	EP 1 143 630 A (CIT ALCATEL) 10 October 2001 (2001-10-10)  paragraphs '0026!-'0031!, '0047!-'0064!; figure 3	1,2, 10-12, 15-19

## INTERNATIONAL SEARCH REPORT

PCT/IB 03/06251

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 0876002	A	04-11-1998	US EP JP KR	6067292 A 0876002 A2 10327126 A 263801 B1		23-05-2000 04-11-1998 08-12-1998 16-08-2000
WO 0209375	A	31-01-2002	IT AU WO	TS20000004 A1 2458902 A 0209375 A1		21-01-2002 05-02-2002 31-01-2002
WO 02093768	A	21-11-2002	US WO	2003021337 A1 02093768 A1		30-01-2003 21-11-2002
EP 1143630	A	10-10-2001	EP CN JP US	1143630 A1 1321016 A 2001308743 A 6718162 B1		10-10-2001 07-11-2001 02-11-2001 06-04-2004